

## ABSTRACT

**Apparatus for Detecting the Oscillation Amplitude of an Oscillating Object**

Apparatus for detecting the oscillation amplitude of an oscillating object (3) includes  
5 an optical radiation source (9) and a detector (10) including first and second optical  
radiation sensing areas (24A, 24B) adjacent each other. The detector (10) and the  
optical radiation source (9) are adapted to be located opposite each other with the  
oscillating object (3) located between the source (9) and the detector (10) so that the  
object (3) blocks a portion of the sensing areas (24A, 24B) from receiving optical  
10 radiation from the source (9). A processor (18) coupled to the detector (10) receives  
first and second output signals representing the magnitude of optical radiation  
sensed by the first and second optical radiation sensing areas (24A, 24B),  
respectively. The processor (18) processes the first and second output signals to  
obtain an indication of the amplitude of oscillation of the object (3).

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Figure 2